



SALOON, a Platform for Selecting and Configuring Cloud Environments

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► To cite this version:

Clément Quinton, Daniel Romero, Laurence Duchien. SALOON, a Platform for Selecting and Configuring Cloud Environments. EIT ICT Labs Future Cloud Symposium, Jun 2014, Rennes, France. hal-01011039

HAL Id: hal-01011039

<https://inria.hal.science/hal-01011039>

Submitted on 22 Jun 2014

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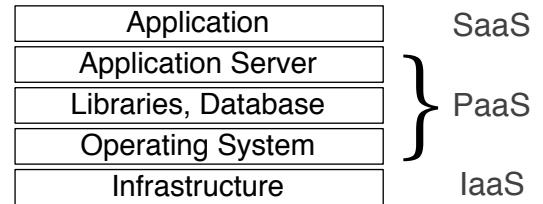
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SALOON, a Platform for Selecting and Configuring Cloud Environments

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Context

Cloud computing has recently emerged as a major trend in distributed computing. This layered model enables the configuration of many computing resources that can be provisioned to support the deployment of applications, provided as Software-as-a-Service (SaaS). Many cloud providers, either at Infrastructure (IaaS) or Platform (PaaS) level, propose different services and pricing models.



Problem Statement

- Which cloud environment...
IaaS, PaaS
- ... based on which criteria ?
Price, performance, reliability...
- How to configure ?
manually \Rightarrow error-prone



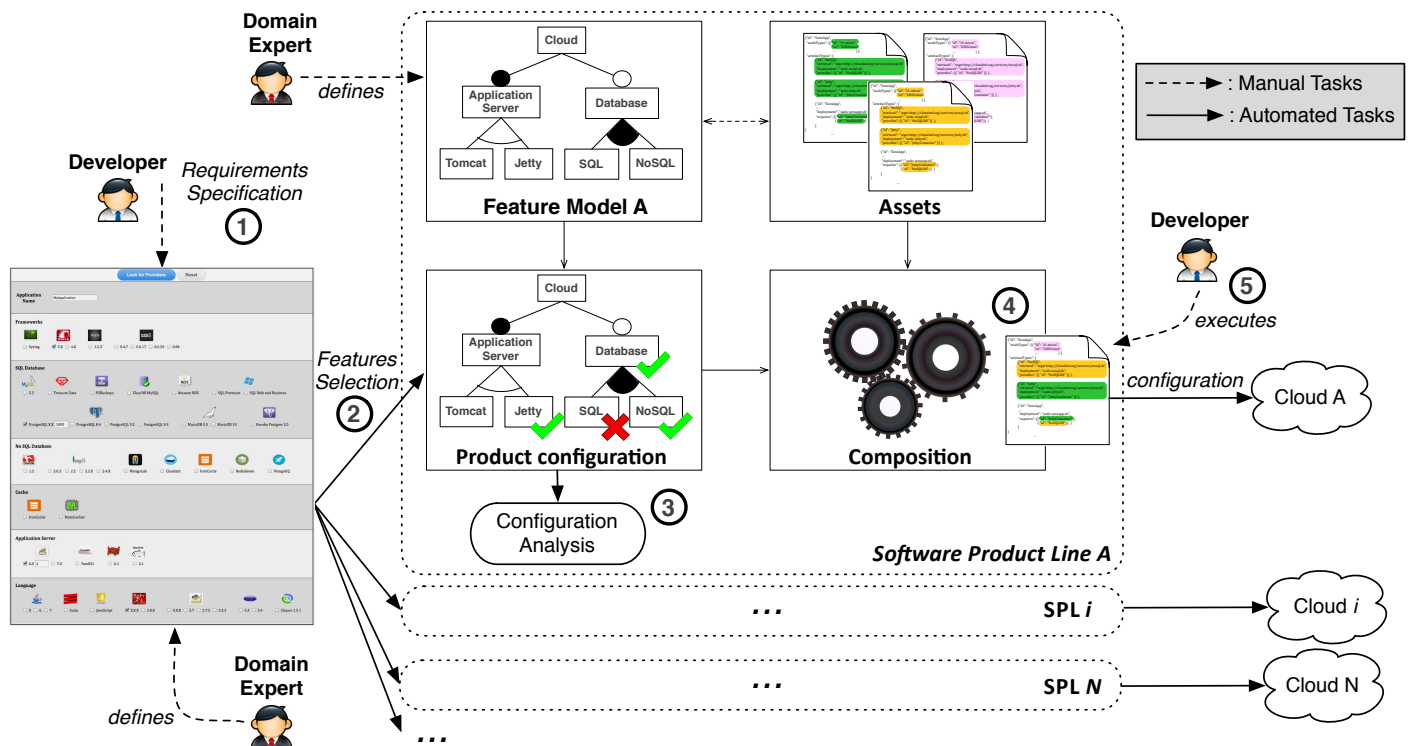
Challenges

C_1 : find an environment providing all functionalities required by the application to run properly and that is suitable regarding non-functional requirements for these functionalities.

C_2 : find a correct configuration of this environment regarding the set of functionalities provided according to C_1 .

C_3 : ensure a reliable way to configure the cloud environment.

SALOON



Perspectives

- Evolution of the platform
- Dynamic Software Product Lines
- Multi-Cloud deployment

References

Automated Selection and Configuration of Cloud Environments Using Software Product Lines Principles. Clément Quinton, Daniel Romero and Laurence Duchien. In *Proceedings of the 7th IEEE International Conference on Cloud Computing, CLOUD'14*. Anchorage, USA. Acceptance rate: 20%.

Acknowledgments: this work is partially supported by the EU FP7 PaaSage project

